James B Gaherty

List of Publications by Year
in descending order

36 papers	1,371 citations	304743 22 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	1164 citing authors

#	Article	IF	Citations
1	Seismic structure of the upper mantle in a central Pacific corridor. Journal of Geophysical Research, 1996, 101, 22291-22309.	3.3	170
2	How are vertical shear wave splitting measurements affected by variations in the orientation of azimuthal anisotropy with depth?. Geophysical Journal International, 2000, 141, 374-390.	2.4	125
3	Surface wave phase-velocity tomography based on multichannel cross-correlation. Geophysical Journal International, 2015, 201, 1383-1398.	2.4	94
4	High-resolution seismic constraints on flow dynamics in the oceanic asthenosphere. Nature, 2016, 535, 538-541.	27.8	92
5	Spreading-rate dependence of melt extraction at mid-ocean ridges from mantle seismic refraction data. Nature, 2004, 432, 744-747.	27.8	85
6	Seismic Evidence for Hotspot-Induced Buoyant Flow Beneath the Reykjanes Ridge. Science, 2001, 293, 1645-1647.	12.6	61
7	The electrical structure of the central <scp>P</scp>acific upper mantle constrained by the <scp>N</scp>oMelt experiment. Geochemistry, Geophysics, Geosystems, 2015, 16, 1115-1132.	2.5	56
8	Highâ€Resolution Constraints on Pacific Upper Mantle Petrofabric Inferred From Surfaceâ€Wave Anisotropy. Journal of Geophysical Research: Solid Earth, 2019, 124, 631-657.	3.4	52
9	Mantle deformation during slow seafloor spreading constrained by observations of seismic anisotropy in the western Atlantic. Earth and Planetary Science Letters, 2004, 228, 255-265.	4.4	49
10	Kinematics of Active Deformation in the Malawi Rift and Rungwe Volcanic Province, Africa. Geochemistry, Geophysics, Geosystems, 2019, 20, 3928-3951.	2.5	41
11	Amphibious surface-wave phase-velocity measurements of the Cascadia subduction zone. Geophysical Journal International, 2019, 217, 1929-1948.	2.4	41
12	Surface wave tomography of the upper mantle beneath the Reykjanes Ridge with implications for ridgeâ€“hot spot interaction. Journal of Geophysical Research, 2007, 112, .	3.3	38
13	Intrarift fault fabric, segmentation, and basin evolution of the Lake Malawi (Nyasa) Rift, East Africa. , 2020, 16, 1293-1311.		37
14	Crustal structure surrounding the northern Malawi rift and beneath the Rungwe Volcanic Province, East Africa. Geophysical Journal International, 2018, 215, 1410-1426.	2.4	34
15	Controls on Rift Faulting in the North Basin of the Malawi (Nyasa) Rift, East Africa. Tectonics, 2020, 39, e2019TC005633.	2.8	29
16	Seismic anisotropy associated with continental lithosphere accretion beneath the CANOE array, northwestern Canada. Geology, 2010, 38, 887-890.	4.4	28
17	Acquisition of a Unique Onshore/Offshore Geophysical and Geochemical Dataset in the Northern Malawi (Nyasa) Rift. Seismological Research Letters, 2016, 87, 1406-1416.	1.9	28
18	Constraints on Rift Basin Structure and Border Fault Growth in the Northern Malawi Rift From 3â€D Seismic Refraction Imaging. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,003.	3.4	27

#	Article	IF	Citations
19	Evaluating hot spot-ridge interaction in the Atlantic from regional-scale seismic observations. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	26
20	Seismic Evidence for Plumeâ€•and Cratonâ€Influenced Upper Mantle Structure Beneath the Northern Malawi Rift and the Rungwe Volcanic Province, East Africa. Geochemistry, Geophysics, Geosystems, 2018, 19, 3980-3994.	2.5	26
21	Anisotropy beneath a highly extended continental rift. Geochemistry, Geophysics, Geosystems, 2014, 15, 545-564.	2.5	25
22	Seismic Anisotropy of the Upper Mantle Below the Western Rift, East Africa. Journal of Geophysical Research: Solid Earth, 2018, 123, 5644-5660.	3.4	25
23	Preferential localized thinning of lithospheric mantle in the melt-poor Malawi Rift. Nature Geoscience, 2020, 13, 584-589.	12.9	25
24	Crust and upper mantle structure associated with extension in the <scp>W</scp>oodlark <scp>R</scp>ift, <scp>P</scp>apua <scp>N</scp>ew <scp>G</scp>uinea from <scp>R</scp>ayleighâ€wave tomography. Geochemistry, Geophysics, Geosystems, 2015, 16, 3808-3824.	2.5	24
25	Faulting processes during early-stage rifting: seismic and geodetic analysis of the 2009â€“2010 Northern Malawi earthquake sequence. Geophysical Journal International, 2019, 217, 1767-1782.	2.4	24
26	Shear attenuation and anelastic mechanisms in the central Pacific upper mantle. Earth and Planetary Science Letters, 2020, 536, 116148.	4.4	21
27	Thermochemical Modification of the Upper Mantle Beneath the Northern Malawi Rift Constrained From Shear Velocity Imaging. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008843.	2.5	19
28	Azimuthal Seismic Anisotropy of 70â€Ma Pacificâ€Plate Upper Mantle. Journal of Geophysical Research: Solid Earth, 2019, 124, 1889-1909.	3.4	16
29	The Eastern North American Margin Community Seismic Experiment: An Amphibious Activeâ€•and Passiveâ€Source Dataset. Seismological Research Letters, 2020, 91, 533-540.	1.9	15
30	Age dependence and anisotropy of surface-wave phase velocities in the Pacific. Geophysical Journal International, 2019, 216, 640-658.	2.4	11
31	Constraints on the Depth, Thickness, and Strength of the G Discontinuity in the Central Pacific From S Receiver Functions. Journal of Geophysical Research: Solid Earth, 2021, 126, e2019JB019256.	3.4	11
32	The Pacific OBS Research into Convecting Asthenosphere (ORCA) Experiment. Seismological Research Letters, 2022, 93, 477-493.	1.9	5
33	Shaking in the Southeastern United States: Examining Earthquakes and Blasts in the Central Georgiaâ€“South Carolina Seismic Region. Seismological Research Letters, 2021, 92, 3145-3164.	1.9	4
34	Investigating Short-Period Lake-Generated Microseisms Using a Broadband Array of Onshore and Lake-Bottom Seismometers. Seismological Research Letters, 2022, 93, 1585-1600.	1.9	3
35	ENHANCED LITHOSPHERIC MANTLE THINNING IN THE MELT-POOR MALAWI RIFT. , 2018, , .		2
36	Lithosphere Structure and Seismic Anisotropy Offshore Eastern North America: Implications for Continental Breakup and Ultraâ€Slow Spreading Dynamics. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	2